RPCM R&R NOD101

OBJECTIVE:

Remove a failed RPCM and replace it with a spare.

LOCATION:

Installed: NOD1O1

Stowed: √Maintenance Database

DURATION:

30 minutes (If Alcove Shear Panels have been removed)

PARTS:

RPCM-Int Type V (P/N R077419-31)

MATERIALS:

Wet Wipes

Plastic Bag

TOOLS REQUIRED:

Equipment Bag

Tethers

Kit E:

Ratchet 3/8" Drive

6" Ext 3/8" Drive

Driver Handle 1/4" Drive

Kit D:

5/32" Hex Head Driver, 1/4" Drive

EVA Kit:

7/16" x 6" Wobble Socket Extension, 3/8" Drive

Kit G:

(5-35 in-lbs) Trq Driver

(30-200 in-lbs) Trq Wrench

REFERENCED PROCEDURE(S):

RPCM SAFE FOR MAINTENANCE

NODE 1 ALCOVE OVHD SHEAR PANEL REMOVAL

ACTIVATE RPCM

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

- 1. Don Anti-Static wrist tether.
- 2. Perform RPCM SAFE FOR MAINTENANCE, all (SODF: OSO), then:

ACCESS

- Remove alcove ovhd closeout panel, fasteners (ten) (Handle 1/4" Drive, 5/32" Hex Head Driver). Tmpry stow.
- 4. If Alcove Ovhd Shear Panels have not been removed Perform NODE 1 ALCOVE SHEAR PANEL REMOVAL, all (SODF: OSO), then:
 - If Alcove Ovhd Shear Panels have been removed Go to step 5.

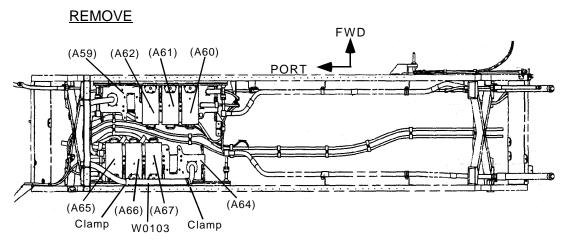


Figure 1.- Nadir View of Node 1 Forward Nadir Alcove (with Closeout and Shear Panel Removed).

Table 1. Node 1 Alcove Ovhd RPDA/RPCM Identification

Name	Ref. Designator	RPCM Type
RPDA N1-RS1	(A64)	N/A
RPCM N1-RS1-A	(A65)	V
RPCM N1-RS1-B	(A66)	V
RPCM N1-RS1-C	(A67)	V
RPDA N1-4B	(A59)	N/A
RPCM N1-4B-A	(A60)	V
RPCM N1-4B-B	(A61)	V
RPCM N1-4B-C	(A62)	V

Locate failed RPCM.
See Figure 1 and Table 1.

CAUTION

Failure to fully seat 7/16" x 6" Wobble Socket Extension, apply constant pressure on drive screw could result in damage to RPCM locking mechanisms.

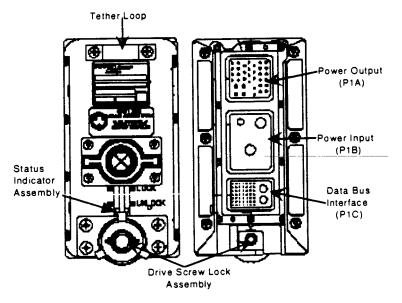


Figure 2.- Remote Power Control Module (Front and Back).

- 6. Apply pressure, loosen failed RPCM drive screw (Ratchet 3/8" Drive, 7/16" x 6" Wobble Socket Ext).
- 7. √Status indi UNLOCK
- 8. Label, remove failed RPCM from receptacle by sliding it off guide rails.
- Verify replacement RPCM part number RPCM-Int Type V (P/N R077419-31).
- Remove electrical connector protective caps (two) from replacement RPCM, install on failed RPCM.
 Tmpry stow failed RPCM.

REPLACE

- 11. Inspect RPCM and mounting location for foreign matter/debris, damage to alignment guides, pins.
- 12. Clean coldplate bonding surface with Wet Wipes.

CAUTION

All internal RPCMs have the same physical characteristics. Forcing incorrect spare RPCM into receptacle could bend RPCM connector pins.

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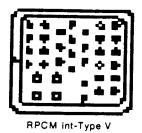


Figure 3.- RPCM Power Out Connector (Node 1).

- 13. Verify replacement RPCM Power Out connectors pins. See Figure 3.
- 14. Position replacement RPCM on guide rails of RPDA.
- 15. Insert RPCM into RPCM receptacle until status indicator reaches UNLOCK position.

CAUTION

Failure to fully seat 7/16" x 6" Wobble Socket Extension, apply constant pressure on drive screw could result in damage to RPCM locking mechanisms.

- 16. Apply pressure, tighten RPCM drive screw, torque to 60 ± 6 in-lbs (Ratchet, 3/8" Drive, 7/16" x 6" Wobble Socket Ext, (30-200 in-lbs) Trq Wrench).
- 17. √Status indi LOCK

CHECK-OUT

18. Perform ACTIVATE RPCM procedure.

CLOSE-OUT

19. Install zenith closeout panel. Fasteners (ten), torque to 14 ± 2 in-lbs (Handle 1/4" Drive, 5/32" Hex Head Driver, (5-35 in-lbs) Trq Driver).

POST MAINTENANCE

- 20. Stow failed RPCM, tools, equipment.
- 21. Update Maintenance Database.

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